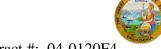
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES Office of Structural Materials

Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453

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Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 69.15

SOURCE INSPECTION REPORT

Resident Engineer: Pursell, Gary **Report No:** SIR-001506 Address: 333 Burma Road **Date Inspected:** 22-Feb-2009

City: Oakland, CA 94607

OSM Arrival Time: 700 **Project Name:** SAS Superstructure **OSM Departure Time:** 1900 **Prime Contractor:** American Bridge/Fluor Enterprises, a JV

Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Changxing Dao, Shangha

Quality Control Contact: William (Bill) Oak **Quality Control Present:** Yes No

Material transfer: Yes No N/A **Sampled Items:** Yes No N/A **Stock Transfer:** N/A OK to Cut: N/A Yes No Yes No **Rebar Test Witness:** N/A **Delayed/Cancelled:** Yes No Yes No N/A

Other: Coatings Inspection

Bridge No: 34-0006 **Component:** OBG 4AW, OBG 1AE, OBG 1AW

Bid Item: Lot No: 77, 78, 79 B265

Summary of Items Observed:

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following: **OBG 4AW**

A joint Inspection was performed with Caltrans QA Lumley, ZPMC & ABF QA/QC representatives. Base metal surfaces of this segments floor "T" stiffeners and interior skin were inspected. The areas exhibited burrs and fins in the base metal as well as localized areas of arc strikes. ZPMC personnel ground affected areas and re-blasted the affected areas to re-establish profiles. Profile readings were obtained and the following values recorded 66-84 um. ZPMC & ABF QA/QC monitored ambient conditions inside the blast shop and commenced application of Interzinc 22. International Protective Coatings representative was also present during this inspection and verified the work to be in conformance with their respective product data sheets and recommendations. OBG 1AE & OBG 1AW,

The diaphragm segment faying surface sub-assemblies were inspected jointly with ABF & ZPMC QA/QC personnel together with Caltrans QA Lumley SSPC SP-10 was observed and profiles obtained by ABF & ZPMC QA/QC profiles were 62-72um on base metal surfaces. Ambient conditions were monitored by ZPMC and found to be within the contract and the coating manufacturers recommendations. Interzinc 22 application commenced. Caltrans QA Lumley observed Application of Interzinc 22 to the aforementioned surfaces during the air-spray application process ZPMC personnel opened the door to the workshop to remove other materials and transport elsewhere. ZPMC personnel did not ensure the door remained closed and subsequently lost ambient conditions for

application. Caltrans QA Lumley with ZPMC QC representative ascertained that ambient conditions were no

SOURCE INSPECTION REPORT

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longer suitable to permit application. ZPMC QC stopped in process application and amended the door issue. ZPMC was unable to coat within the allotted blast/application window and thus re-blasted the affected areas both previously coated and uncoated areas of the base metal surfaces.

International Protective Coatings technical service representative Zili Peng attended and observed all inspection processes and mixing and coating operations during joint inspection with ZPMC & ABF & Caltrans QA Lumley.

Summary of Conversations:

ZPMC QC representative requested additional inspection of OBG 1AW & OBG 1AE after base metal repairs were performed verbally. Caltrans QA Lumley complied and informed ZPMC to follow up with proper notice of inspection documentation.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang. (*58) 699-9549, who represents the Office of Structural Materials for your project.

Inspected By:	Lumley, James	Quality Assurance Inspector
Reviewed By:	Miller,Mark	QA Reviewer